



SPYWOLF

Security Audit Report



Completed on
May 14, 2023

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OVERVIEW

This audit has been prepared for **Ordinal Pepe** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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ORDINAL PEPE



PROJECT DESCRIPTION

According to their whitepaper:

Ordinal Pepe - \$oPEPE. The first ever pepe on bitcoin blockchain.
We have combined the most exciting memeable coin in existence with bitcoin. oPEPE genuinely Cares for its Frens
Together we will make memes great again the Ordinal way.
Ordinals blowing up as is pepe! What better than relighting the meme culture again by bringing the two most hyped cultures together.

Release Date: Presale starts in May, 2023

Category: Meme token



CONTRACT INFO

Token Name
Ordinal Pepe

Symbol
Opepe

Contract Address
0x90b0916eC12704DA969aEEc1c04dbdBCD60a39C7

Network
Binance Smart Chain

Language
Solidity

Deployment Date
May 11, 2023

Verified?
Yes

Total Supply
1,000,000,000,000,000

Status
Not launched

TAXES

Buy Tax
none

Sell Tax
none

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	7
Uniq Senders	4
Uniq Receivers	6
Total Amount	3410296000000000 Opepe
Median Transfer Amount	395148000000000 Opepe
Average Transfer Amount	487185142857142.8 Opepe
First transfer date	2023-05-11
Last transfer date	2023-05-13
Days token transferred	1

SMART CONTRACT STATS

Calls Count	16
External calls	4
Internal calls	12
Transactions count	12
Uniq Callers	7
Days contract called	2
Last transaction time	2023-05-13 22:52:59 UTC
Created	2023-05-11 21:02:47 UTC
Create TX	0x96d4fe235c00b196acb5edab45ce4f097e4bce45a5a35619a44495ade51d4cfb
Creator	0x85aa7f78bdb2de8f3e0c0010d99ad5853ffcfc63



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



Informational

Contract's curator can set fees up to 10% of total supply. These fees are minted on annual base.

```
function updateFee(uint256 _fee) external {
    require(msg.sender == curator, "update:not curator");
    require(_fee <= ISettings(settings).maxCuratorFee(), "update:cannot increase fee this high");

    _claimFees();

    fee = _fee;
}

function _claimFees() internal {
    require(auctionState != State.ended, "claim:cannot claim after auction ends");

    // get how much in fees the curator would make in a year
    uint256 currentAnnualFee = fee * totalSupply() / 1000;
    // get how much that is per second;
    uint256 feePerSecond = currentAnnualFee / 31536000;
    // get how many seconds they are eligible to claim
    uint256 sinceLastClaim = block.timestamp - lastClaimed;
    // get the amount of tokens to mint
    uint256 curatorMint = sinceLastClaim * feePerSecond;

    // now lets do the same for governance
    address govAddress = ISettings(settings).feeReceiver();
    uint256 govFee = ISettings(settings).governanceFee();
    currentAnnualFee = govFee * totalSupply() / 1000;
    feePerSecond = currentAnnualFee / 31536000;
    uint256 govMint = sinceLastClaim * feePerSecond;

    lastClaimed = block.timestamp;

    _mint(curator, curatorMint);
    _mint(govAddress, govMint);
}
```



Informational

This token is fractionalized NFT token, represented as ERC20 token created via the fractional art's platform (1 token = 1 fraction).

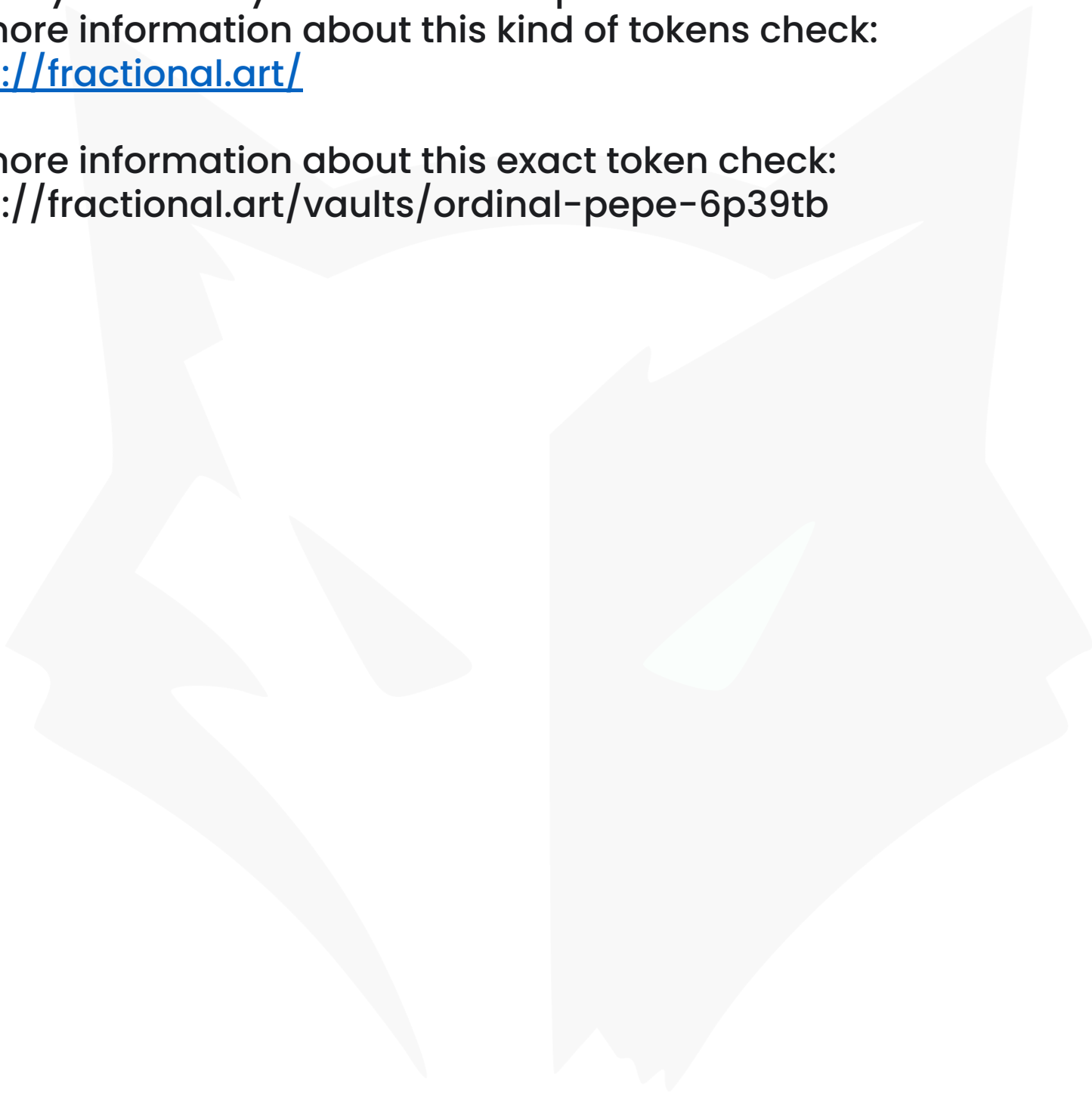
The NFT itself is not in the scope of this audit and its vault is not currently verified by fractional art's platform.

For more information about this kind of tokens check:

<https://fractional.art/>

For more information about this exact token check:

<https://fractional.art/vaults/ordinal-pepe-6p39tb>





RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Ordinal Pepe

GOOD PRACTICES FOUND

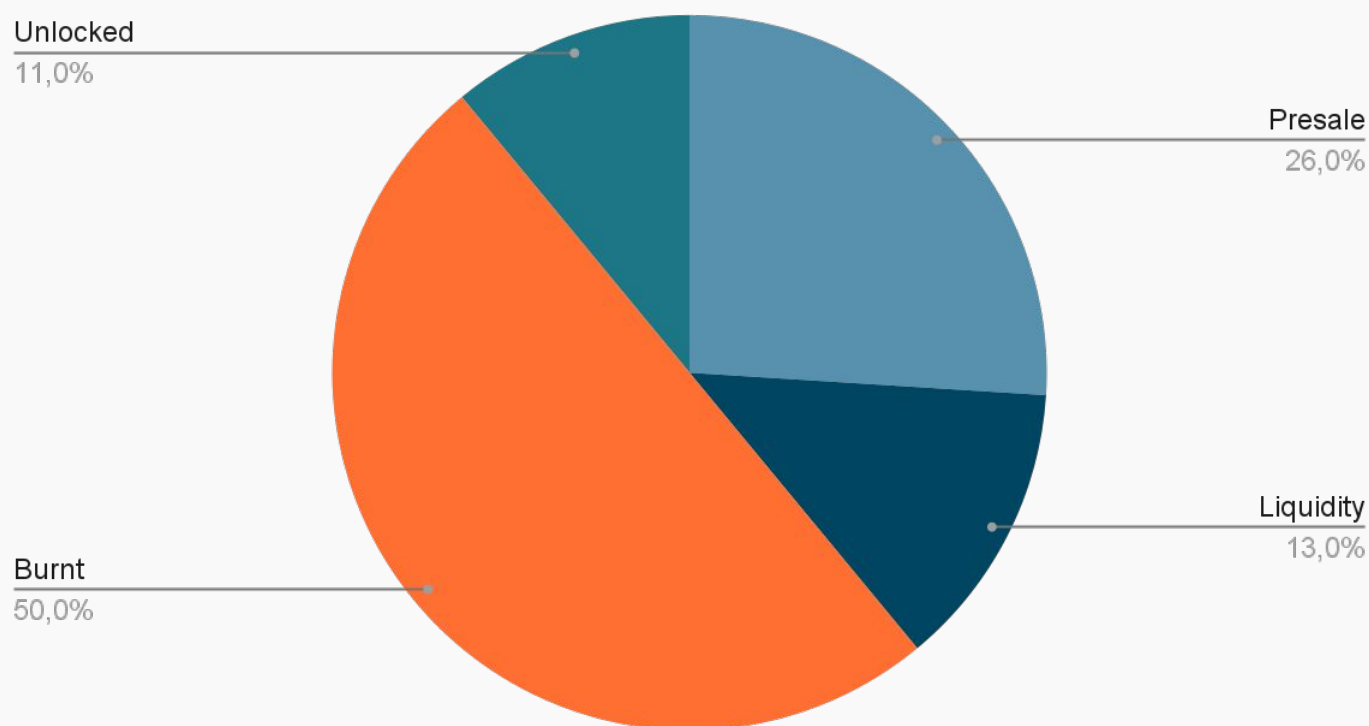
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit



*The following tokenomics are based on Pinksale's presale page:

- 26% - Presale
- 13% - Liquidity
- 50% - Burnt
- 11% - Unlocked

Tokens distribution



*Initial tokens distribution stated in the project's website and whitepaper differs from the one in Pinksale's presale page.

For more information visit <https://ordinalpepe.io/#tokenomics>

TOKENOMICS



WEBSITE

Website URL

<https://ordinalpepe.io/>

Domain Registry

<https://www.hostinger.com>

Domain Expiration

2024-05-10

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

Well written but a bit short

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



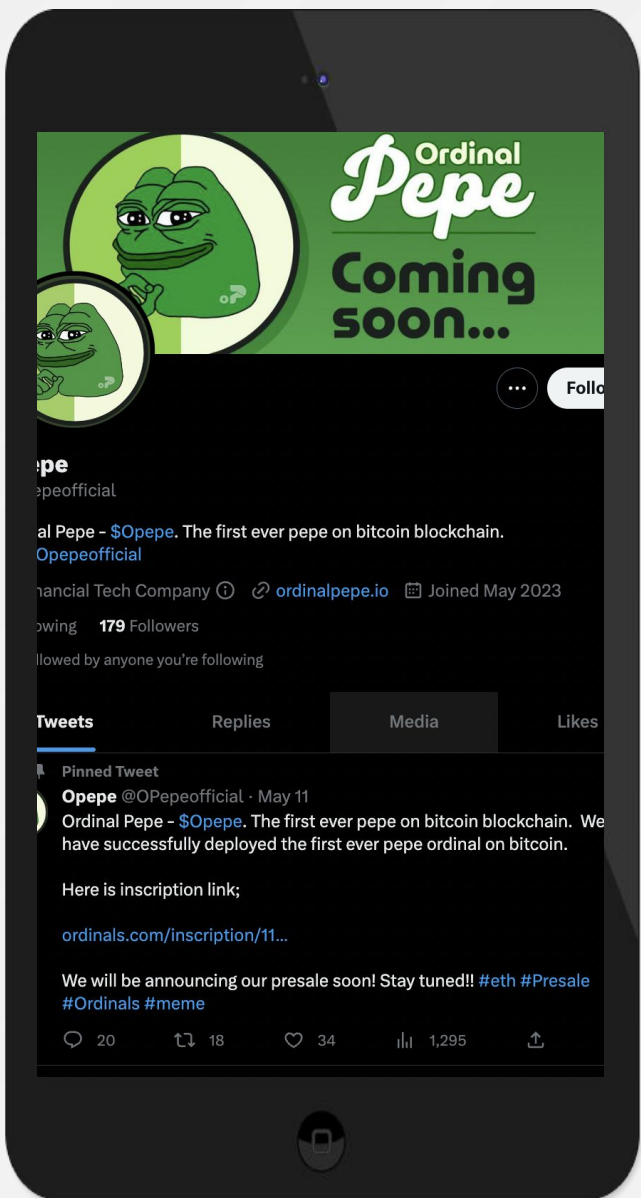
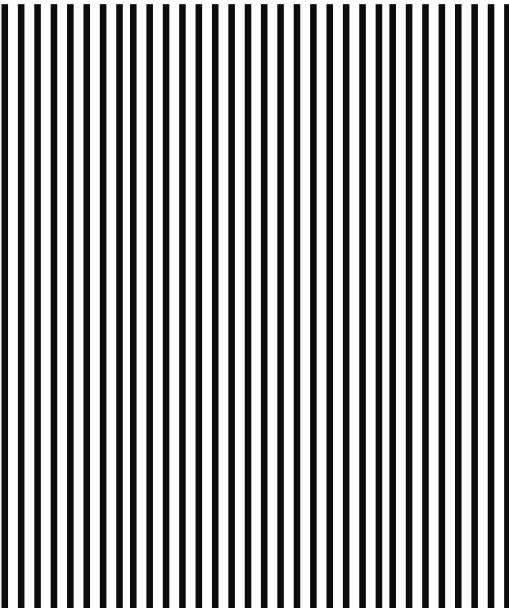
ordinalpepe.io



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Project’s social media pages are active



Twitter
@opepeofficial

- 157 followers
- Active



Discord

- Not available



Telegram
@TelegramUSERNAME

- 161 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.